#4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

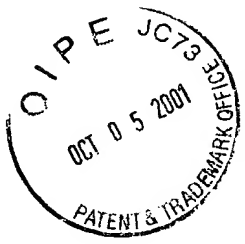
In re Patent Application of

GOLDSPINK et al.

Serial No. **09/852,261**

Filed: **May 10, 2001**

For: **REPAIR OF NERVE DAMAGE**



Atty. Ref.: **117-351**

Group:

Examiner:

4/a

* * * * * * * * * * * *

October 5, 2001

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

LETTER

The attached paper and computer-readable copies of the Sequence Listing are the same. No new matter has been added.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: _____

B. J. Sadoff
Reg. No. **36,663**

BJS:eaw
1100 North Glebe Road, 8th Floor
Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100

564098

#4

SEQUENCE LISTING

<110> GOLDSPINK, GEOFFREY
TERENGHI, GIORGIO

<120> REPAIR OF NERVE DAMAGE

<130> 117-351

<140> 09/852,261
<141> 2001-05-10

<150> GB 0011278.9
<151> 2000-05-10

<160> 14

<170> PatentIn Ver. 2.1

<210> 1
<211> 517
<212> DNA
<213> Homo sapiens

<400> 1
ggaccggaga cgctctgcgg ggctgagctg gtggatgctc ttcagttcgt gtgtggagac 60
aggggctttt atttcaacaa gcccacaggg tatggctcca gcagtcggag ggcgcctcag 120
acaggcatcg tggatgagtg ctgcttccgg agctgtgatc taaggaggct ggagatgtat 180
tgcgcacccc tcaagcctgc caagtcagct cgctctgtcc gtgcccagcg ccacaccgac 240
atgcccaaga cccagaagta tcagccccca tctaccaaca agaacacgaa gtctcagaga 300
aggaaaggaa gtacatttga agaacacaag tagagggagt gcaggaaaca agaactacag 360
gatgtagaag acccttctga ggagtgaaga aggacaggcc accgcaggac cctttgctct 420
gcacagttac ctgtaaacat tggaataccg gccaaaaaat aagtttgatc acatttcaaa 480
gatggcattt cccccaatga aatacacaag taaacat 517

a'

<210> 2
<211> 110
<212> PRT
<213> Homo sapiens

<400> 2
Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
1 5 10 15

Val Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly
20 25 30

Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys
35 40 45

Phe Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu
50 55 60

Lys Pro Ala Lys Ser Ala Arg Ser Val Arg Ala Gln Arg His Thr Asp
65 70 75 80

Met Pro Lys Thr Gln Lys Tyr Gln Pro Pro Ser Thr Asn Lys Asn Thr
85 90 95

Lys Ser Gln Arg Arg Lys Gly Ser Thr Phe Glu Glu His Lys
100 105 110

<210> 3
<211> 539
<212> DNA
<213> Rattus sp.

<400> 3
ggaccagaga ccctttgcgg ggctgagctg gtggacgctc ttcagttcgt gtgtggacca 60
aggggctttt acttcaacaa gcccacagtc tatggctcca gcattcggag ggcaccacag 120
acgggcattg tggatgagtg ttgcttccgg agctgtgatc tgaggaggct ggagatgtac 180
tgtgtccgct gcaagcctac aaagtcagct cgttccatcc gggcccagcg ccacactgac 240
atgcccaaga ctcagaagtc ccagccccta tcgacacaca agaaaaggaa gctgcaaagg 300
agaaggaaag gaagtacact tgaagaacac aagtagagga agtgcaggaa acaagaccta 360
cagaatgtag gaggagcctc ccgaggaaca gaaaatgcca cgtcaccgca agatcctttg 420
ctgcttgagc aacctgcaaa acatcggaac acctgccaaa tatcaataat gagttcaata 480
tcatttcaga gatgggcatt tccctcaatg aaatacacaa gtaaacattc ccggaattc 539

<210> 4
<211> 111
<212> PRT
<213> Rattus sp.

<400> 4
Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
1 5 10 15

Val Cys Gly Pro Arg Gly Phe Tyr Phe Asn Lys Pro Thr Val Tyr Gly
20 25 30

Ser Ser Ile Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys
35 40 45

Phe Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Val Arg Cys
50 55 60

Lys Pro Thr Lys Ser Ala Arg Ser Ile Arg Ala Gln Arg His Thr Asp
65 70 75 80

Met Pro Lys Thr Gln Lys Ser Gln Pro Leu Ser Thr His Lys Lys Arg
85 90 95

Lys Leu Gln Arg Arg Arg Lys Gly Ser Thr Leu Glu Glu His Lys
100 105 110

<210> 5
<211> 523
<212> DNA
<213> Oryctolagus cuniculus

<400> 5
ggaccggaga cgctctgcgg tgctgagctg gtggatgctc ttcagttcgt gtgtggagac 60
aggggctttt atttcaacaa gcccacagga tacggctcca gcagtcggag ggcacctcag 120
acaggcatcg tggatgagtg ctgcttccgg agctgtgatc tgaggaggct ggagatgtac 180
tgtgcacccc tcaagccggc aaaggcagcc cgctccgtcc gtgcccagcg ccacaccgac 240
atgcccaaga ctcagaagta tcagcctcca tctaccaaca agaaaatgaa gtctcagagg 300
agaaggaaag gaagtacatt tgaagaacac aagtagaggg agtgcaggaa acaagaacta 360
caggatgtag gaagaccctt ctgaggagtg aagaaggaca ggccaccgca ggacccttg 420
ctctgcacag ttacctgtaa acattggaat accggccaaa aaataagttt gatcacattt 480
caaagatggc atttccccca atgaaataca caagtaaaca ttc 523

<210> 6
<211> 111
<212> PRT
<213> Oryctolagus cuniculus

<400> 6
Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
1 5 10 15

Val Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly
20 25 30

Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys
35 40 45

Phe Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu
50 55 60

Lys Pro Ala Lys Ala Ala Arg Ser Val Arg Ala Gln Arg His Thr Asp
65 70 75 80

Met Pro Lys Thr Gln Lys Tyr Gln Pro Pro Ser Thr Asn Lys Lys Met
85 90 95

Lys Ser Gln Arg Arg Arg Lys Gly Ser Thr Phe Glu Glu His Lys
100 105 110

a' cont

<210> 7
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 7
gccaccatgg 10

<210> 8
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 8
gcccccatgg 10

<210> 9
<211> 318
<212> DNA
<213> Homo sapiens

<400> 9
ggaccggaga cgctctgcgg ggctgagctg gtggatgctc ttcagttcgt gtgtggagac 60
aggggctttt atttcaacaa gcccacaggg tatggctcca gcagtcggag ggcgcctcag 120
acaggcatcg tggatgagtg ctgcttccgg agctgtgatc taaggaggct ggagatgtat 180
tgcgcacccc tcaagcctgc caagtcagct cgctctgtcc gtgcccagcg ccacaccgac 240
atgcccaaga cccagaagga agtacatttg aagaacgcaa gtagagggag tgcaggaaac 300
aagaactaca ggatgtag 318

<210> 10
<211> 105
<212> PRT
<213> Homo sapiens

<400> 10
Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
1 5 10 15

Val Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly
20 25 30

Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys
35 40 45

Phe Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu
50 55 60

Lys Pro Ala Lys Ser Ala Arg Ser Val Arg Ala Gln Arg His Thr Asp
65 70 75 80

Met Pro Lys Thr Gln Lys Glu Val His Leu Lys Asn Ala Ser Arg Gly
85 90 95

Ser Ala Gly Asn Lys Asn Tyr Arg Met
100 105

<210> 11
<211> 487
<212> DNA
<213> Rattus sp.

<400> 11
ggaccagaga ccctttgcgg ggctgagctg gtggacgctc ttcagttcgt gtgtggacca 60
aggggctttt acttcaacaa gcccacagtc tatggctcca gcattcggag ggcaccacag 120

acgggcattg tggatgagtg ttgcttccgg agctgtgatc tgaggaggct ggagatgtac 180
tgtgtccgct gcaagcctac aaagtcagct cgttccatcc gggcccagcg ccacactgac 240
atgcccaaga ctcagaagga agtacacttg aagaacacaa gtagaggaag tgcaggaaac 300
aagacctaca gaatgtagga ggagcctccc gaggaacaga aaatgccacg tcaccgcaag 360
atcctttgct gcttgagcaa cctgcaaaac atcggaacac ctgccaaata tcaataatga 420
gttcaatatc atttcagaga tgggcatttc cctcaatgaa atacacaagt aaacattccc 480
ggaattc 487

<210> 12
<211> 105
<212> PRT
<213> Rattus sp.

<400> 12
Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
1 5 10 15

Val Cys Gly Pro Arg Gly Phe Tyr Phe Asn Lys Pro Thr Val Tyr Gly
20 25 30

Ser Ser Ile Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys
35 40 45

Phe Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Val Arg Cys
50 55 60

Lys Pro Thr Lys Ser Ala Arg Ser Ile Arg Ala Gln Arg His Thr Asp
65 70 75 80

Met Pro Lys Thr Gln Lys Glu Val His Leu Lys Asn Thr Ser Arg Gly
85 90 95

Ser Ala Gly Asn Lys Thr Tyr Arg Met
100 105

a' Cont

<210> 13
<211> 471
<212> DNA
<213> Oryctolagus cuniculus

<400> 13
ggaccggaga cgctctgcgg tgctgagctg gtggatgctc ttcagttcgt gtgtggagac 60
aggggctttt atttcaacaa gcccacagga tacggctcca gcagtcggag ggcacctcag 120
acaggcatcg tggatgagtg ctgcttccgg agctgtgatc tgaggaggct ggagatgtac 180
tgtgcacccc tcaagccggc aaaggcagcc cgctccgtcc gtgcccagcg ccacaccgac 240
atgcccaaga ctcagaagga agtacatttg aagaacacaa gtagagggag tgcaggaaac 300
aagaactaca ggatgtagga agacccttct gaggagtgaa gaaggacagg ccaccgcagg 360
acccttttgct ctgcacagtt acctgtaaac attggaatac cggccaaaaa ataagtttga 420
tcacatttca aagatggcat ttcccccaat gaaatacaca agtaaacatt c 471

<210> 14
<211> 105
<212> PRT
<213> Oryctolagus cuniculus

<400> 14

```
Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe
  1               5                  10                  15

Val Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly
             20                  25                  30

Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys
         35                  40                  45

Phe Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu
     50                  55                  60

Lys Pro Ala Lys Ala Ala Arg Ser Val Arg Ala Gln Arg His Thr Asp
 65                  70                  75                  80

Met Pro Lys Thr Gln Lys Glu Val His Leu Lys Asn Thr Ser Arg Gly
                 85                  90                  95

Ser Ala Gly Asn Lys Asn Tyr Arg Met
             100                 105
```

a1 cont